## IN THE CLAIMS

- 1. (Currently Amended) A theft prevention method for a vehicle <u>having a battery</u>, a <u>main switch</u> connected to said battery and a theft prevention device actuated upon operation of the main switch and stopped when the main switch is released, allowing that a main switch connected to a battery is turned on to actuate theft prevention means and operation of the theft prevention means is stopped through releasing operation, wherein a <u>said method comprising the steps of reading the</u> battery voltage is read immediately after the main switch is turned on, it is determined whether or not determining if the battery voltage is no larger than a given value after the releasing operation of the main switch, and issuing a warning is issued if the battery voltage is no larger than the given value.
- 2. (Currently Amended) The theft prevention method for a vehicle as set forth in claim 1, wherein the theft prevention means device is an immobilizer system for cutting off an engine ignition unit when the main switch is operated incorrectly.
- 3. (Currently Amended) The theft prevention method for a vehicle as set forth in claim 2, wherein the given value of the battery voltage is a lowest working voltage allowing release of the immobilizer system plus a given margin amount.
- 4. (Currently Amended) The theft prevention method for a vehicle as set forth in claim <del>1 or</del> 2, wherein the given value of the battery voltage is a lowest working voltage of a starter motor plus a given margin amount.
- 5. (Currently Amended) A theft prevention device method for a vehicle as set forth in claim 1 having: a theft prevention device main unit connected to a battery through a main switch; a siren for further including the step of generating a warning sound; an indicator lamp for indicating the operating condition of the theft prevention device; an ignition unit of an engine; means for measuring a battery voltage; main switch input determination means for determining ON/OFF of the main switch; and a control circuit constituting an immobilizer for controlling the operation of the siren in response to the determination by the main switch-input determination means and stopping operation of the ignition unit, wherein the control circuit is arranged such that a battery voltage is read immediately after the main switch is turned on, it is determined whether or not if the battery voltage is no larger than a the given value after releasing operation of the immobilizer system, and if the voltage is no larger than the given value, a warning is issued from the siren.

- 6. (Currently Amended) A theft prevention method for a motorcycle, using an acceleration sensor for detecting the acceleration in at least one the direction of the an X-X and a for Y-Y axis, and said method comprising calculating an average value of the sensor outputs for a given time B from the moment when a given time A has elapsed since the start of a new theft monitoring condition, setting the average value as a reference value, and determining a theft condition based on differences between sensor outputs X, Y in the directions of X, Y and given reference values Xs, Ys, wherein an average value of the sensor outputs is calculated for a given time B from the moment when a given time A has elapsed since the start of a new theft monitoring condition, and the average value is set as the reference value.
- 7. (Original) The theft prevention method for a motorcycle as set forth in claim 6, wherein the sensor output is detected at certain periodic intervals, a given number of data pieces detected before an elapse of the given time A are ignored, an average value of a given number of subsequent detection data pieces is set as the reference value, and a theft condition is determined, using the reference value, based on the subsequent detection data.
- 8. (Currently Amended) The theft prevention method for a motorcycle as set forth in claim 6 or 7, wherein sensor outputs are determined in both the x-x direction and the Y-Y direction as values X and Y, respectively and the reference values are set as Xs and Ys respectively and a theft condition is determined, based on |X-Xs|+|Y-Ys|.
- 9. (Currently Amended) The theft prevention method for a motorcycle as set forth in claims 6, 7 or 8, wherein the reference values are is updated at certain time intervals.
- 10. (Currently Amended) A theft prevention device for a motorcycle having: comprising a dual-axis acceleration sensor for detecting an acceleration for along each of the X-W and Y-Y axis; axes, sensor-output reading means for reading the output of the said acceleration sensor; a theft determination means determinator for determining, based on the read sensor output, whether or not there exists a theft condition based on the read sensor output, and warning means for issuing a warning when it is determined that there exists a theft condition, the said theft determination means determinator calculating ealeulates a resultant operational output value A of sensor outputs of the X-X and Y-Y axes axis, based on differences between the sensor outputs X, Y of the X-X and Y-Y axes axis and given reference values Xs, Ys for the respective X-X and Y-Y axes; a theft condition is determined, based on the vibration of the vehicle; if the operational output value A is larger than a given threshold value S; and the theft condition is determined; based on the tilt of the vehicle, if the operational output value A is smaller than the given threshold value S.

- 11. (Currently Amended) The theft prevention device for a motorcycle as set forth in claim 10, wherein it is determined that there exist a theft condition if the operational output value A is larger than a given threshold value S, when this condition continues for not less than a given time in total, it is determined that there exist a theft condition, and a warning is issued.
- 12. (Currently Amended) The theft prevention device for a motorcycle as set forth in claim 10, wherein when the operational output value A is smaller than a given threshold value S, a new average value of the average value of a plurality of former output values and the calculation value used in the previous determination is detected for each of the X-X and Y-Y axes axis; a resultant tilt determination value D of sensor outputs of the X-X and Y-Y axes axis is calculated, based on differences between the new average values and given reference values Xs, Ys; and it is determined that there exists a theft condition when the tilt determination value D is not smaller than a given threshold value Q, it is determined that there exists a theft condition, and a warning is issued.
- 13. (Currently Amended) The theft prevention device for a motorcycle as set forth in claim 10, wherein supposing current output values are represented by X, Y and reference values by Xs, Ys for the X- $\underline{X}$  and Y- $\underline{Y}$  axes  $\underline{axis}$ , the operational output value A is expressed as:

$$A=|X-Xs|+|Y-Ys|$$
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14. (Currently Amended) The theft prevention device for a motorcycle as set forth in claim 10, wherein supposing current output values are represented by X, Y and reference values by Xs, Ys for the X-X and Y-X axes axis, the operational output value A is expressed as:

$$A = \sqrt{\{|X-Xs|^2 + |Y-Ys|^2\}}$$
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- 15. (Currently Amended) The theft prevention device for a motorcycle as set forth in any one of claims 10-claim 14, wherein the sensor-output reading means reads the sensor output at certain time intervals and stores it in a memory.
- 16. (Currently Amended) A theft prevention system for a vehicle, wherein there are provided comprising a first theft prevention device constituted by comprising an immobilizer for checking an ID code of a transponder incorporated in a key and controlling prohibition of engine start and removal of the prohibition, and a second theft prevention device made up of theft detection means comprising a device for detecting a theft condition and a warning means; device, a communication means is provided device communicating signals between the said first and the second theft prevention devices; and transmitting an operating signal of one theft prevention device is sent to the other theft prevention device to enable the other theft prevention device to operate.

- 17. (Currently Amended) The theft prevention system for a vehicle as set forth in claim 16, wherein the operating signal is a canceling signal of theft preventing operation; <u>an</u> engine-start-prohibition canceling signal is sent from the first theft prevention device to the second theft prevention device; <u>and</u> alerting operation of the second theft prevention device is canceled, based on the start-prohibition canceling signal.
- 18. (Currently Amended) The theft prevention system for a vehicle as set forth in claim 16 or 17, wherein the operating signal is an input detection signal of a main switch.
- 19. (Currently Amended) The theft prevention system for a vehicle as set forth in claims 16, 17 or 18, wherein an alerting-operation starting signal is sent from the first theft prevention device to the second theft prevention device a given time after the main switch is turned off.